

L 31275-66 EWT(m)/EWP(j) RM

SOURCE CODE: UR/0079/66/036/002/0296/0302

ACC NR: AP6022799

AUTHOR: Khayrullin, V. K.; Sobchuk, T. I.; Pudovik, A. N.

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Reaction of ethyldichlorophosphine with alpha,beta-unsaturated acids

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 296-302

TOPIC TAGS: reaction mechanism, chlorinated organic compound, IR spectrum, esterification, chemical synthesis, alkylphosphine, diene synthesis

ABSTRACT: The addition of ethyldichlorophosphine to propiolic acid proceeds in the 1,4-position with the formation of 4-oxo-4-chloro-4-phospha-2-hexenoyl chloride. In the reaction of 4-oxo-4-chloro-4-phospha-2-hexenoyl chloride with alcohols and diethyl-amine, esters and the diethylamide of 4-oxo-4-alkoxy-4-phospha-2-hexenoic acid were obtained. Esters of 4-oxo-4-alkoxy-4-phospha-2-hexenoic acid, containing an electrophilic bond, readily add nucleophilic reagents and are extremely active in diene synthesis. The nucleophilic reagent is directed to the beta-carbon atom with respect to the carbomethoxy group. Infrared spectra are cited for seven reaction products. The authors thank R. R. Shagidullin for producing and interpreting the IR spectrum. Orig. art. has: 1 figure and 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 15Mar65 / ORIG REF: 006 / OTH REF: 002

Card 1/1

UDC: 547.468.1

BUGAY, S.M. [Buhai, S.M.]; SOBCHUK, V.V.

Determination of the surface area of corn leaves. Ukr.bot.zhur.
16 no.5:69-72 '59. (MIRA 13:4)

1. Umanskiy sel'skokhozyaystvennyy institut.
(Leaves)

BUROVOY, I.A.; SOBCHUK, Yu.I.

Steam generation in the evaporation cooling of boiler-layer roasters.
TSvet.met.29 no.12:42-47 D '56. (MLRA 10:2)
(Metallurgical furnaces) (Heat regenerators)

SOV/137-59-1-281

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 35 (USSR)

AUTHORS: Sveshnikov, M. A., Sobchuk, Yu. I., Vasil'yev, B. T.

TITLE: Placing Into Operation the First Fluidized-solids Furnace for the Roasting of Pyrite (Opyt puska pervoy pechi dlya obzhiga kolchedana v kipyashchem sloye)

PERIODICAL: V sb.: Vopr. polucheniya sernist. gaza iz kolchedana i sery. Leningrad. Goskhimizdat, 1957, pp 58-68

ABSTRACT: A furnace for roasting of pyrite by the fluidized-bed method was designed in 1953 and placed into operation in 1955 at the Voskresenskiy chemical plant. The furnace is designed for maximum utilization of heat of the fluidized layer (immersed coils) as well as of furnace gases (heat-recovery boilers). A diagram and a detailed description of the furnace and its associated equipment are presented. The furnace is rectangular in cross section (2.2 x 6 x 2.45 m) and is equipped with automatic controls for regulation of fuel and draft; the rated output of the furnace constitutes 90 tons of pyrite per day, the height of the fluidized-solids layer being 0.7 m. The roasting output attained amounted to 55 tons per day; the S content in cinders and in

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SOV/137-59-1-281

Placing Into Operation the First Fluidized-solids Furnace (cont.)

the dust amounted to 0.2 - 0.9% and 0.6 - 0.8%, respectively (42% S in the pyrite); the SO₂ content in the gases constituted 10-11%. Significant advantages offered by this method, as compared with roasting in mechanical furnaces, are pointed out.

A. P.

Card 2/2

SOBCHUK, Yu.I.

Controlling dust deposits from cooling screw conveyors for the
removal of cinders. Sbor. mat. po obm. opyt. NIUIF no.12:24-27 '59.
(MIRA 16:12)

L 56492-65

ACCESSION NR: AP5017800

UR/0286/65/000/011/0031/0031
631.859.12.002.2

4
B

AUTHOR: Karatayev, I. I.; Mel'nik, B. D.; Repenkova, T. G.; Sviridova, A. G.;
Doktorov, N. I.; Nazarov, G. N. Raygorodskiy, I. M.; Vasil'yev, B. T.; Bystrov,
M. V.; Babaryka, I. F.; Kuzyak, F. A.; Fel'dman, M. V.; Soverchenko, D. A.;
Buslakova, L. P.; Toroptseva, N. P.; Lyubimov, S. V.; Ul'yanov, A. T.; Andres,
V. V.; Sobchuk, Yu. I.; Tsetlina, M. M.; Andreyev, V. V.; Kramer, G. L.

TITLE: A method for producing phosphoro-potassium fertilizers. Class 16, No. 171-
409

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 31

TOPIC TAGS: fertilizer, phosphate, potassium

ABSTRACT: This Author's Certificate introduces a method for producing phosphoro-
potassium fertilizers using cement dust (waste from cement production) as the potas-
sium raw material. The process of adding potassium to the product is simplified
and evaporation is prevented by using a 20% excess of an acid which directly neutra-
lizes the cement dust for breaking down the phosphate raw material.

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L 56492-65

ACCESSION NR: AP5017800

ASSOCIATION: none

SUBMITTED: 29Mar62

ENCL: 00

SUB CODE: GC, LS

NO REF SOV: 000

OTHER: 000

Core 2/2

Sobczak, J.

074.031.632.22-418

4250
Wnuk M., Sobczak J. Use of Forms in Pressing Machine Lignofol.

„Prasowanie lignofolu maszynowego przy użyciu form”. Przemysł Drzewny. No. 10, 1955, pp. 25—26, 3 figs, 2 tabs.

This paper discusses experiments carried out at the Department of Wood Raw Materials of the Institute of Timber Technology (ITD) with a view to saving time in pressing lignofol blocks 120-mm thick. Beech veneer, 0.53 mm. thick, and a phenol-formaldehyde-resin aqueous solution were used in the experiments. The temperature of pressing-plates and form was 140°C. The diameter-to-thickness ratio of the lignofol used in the experiments varied from 1.9 to 5.25. The pressing of lignofol in forms took considerably less time than pressing without forms.

Mute *g*

SOBCZAK, Jan

A program of modernizing thermal treatment in Polish industry.
Problemy proj hut maszyn 13 no.1:24-29 Ja '65.

1. Prozamet, Lodz Branch.

ADAMCZAK, Jerzy; SOBCZAK, Jerzy M.

2 cases of vanishing pulmonary lobes. Pol. przegl. radiol. 26 no.1:
47-57 '62.

1. Z Kliniki Radiologicznej AM we Wroclawiu Kierownik: doc. dr med.
Z. Kubrakiewicz i z Pracowni Radiologicznej Szpitala im. K. Swierczewskiego
w Kłodzku Kierownik: lek. J. M. Sobczak.

(LUNGS radiog)

COPIES, E.

"Theory and Practice of Drying Lumber in Kilns", p. 7, (PAPIETNIK DREWNY, Vol. 5, No. 11, Nov. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (WEL), LC, Vol. 4, No. 5, May 1955, Encl.

ENCLOSURE, P.

"Theoretical Bases of the Drying Process; growth I-d, its Structure and Changes",
p. 7, (PRACENIENIE, Vol. 5, No. 12, Dec. 1954, Warszawa, Poland)

30: Monthly List of East European Accessions, (WML), 12, Vol. 4, No. 5, May
1951, Incl.

SOBCZAK, K.

The influence of seasoning and plasticizing by steaming on lasting changes in the mechanical and physical properties of beechwood. p. 5

SYLWAN (Wydział Nauk Rolniczych i Lesnych Polskiej Akademii Nauk i Polskie Towarzystwo Lesne) Warszawa, Poland. Vol. 103, no. 4, Apr 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Uncl.

SOBCZAK, Kazimierz

"Hydrothermic treatment of timber" by Prof. Dr. P.S.Siergowski.
Reviewed by Kazimierz Sobczak. Sylwan 104 no.4:79-80 Ap
'60.

PLAND

WOLAN, J. Gdz.

Department of analytical Chemistry of the Warsaw Poly-
technics School (Instytut Chemii Analitycznej Politechniki,
Warszawa)

Warsaw, Chemia analityczna, No 5, 1963, pp 301-06.

"Determination of Hydroxybenzen in Reserpine (rezercyna)
---III. Distillation method".

SOBCZAK, Nikodem

Determination of phenol in the presence of resorcinol. Pt. 1.
Chem anal 8 no.2:261-266 '63.

1. Department of Analytical Chemistry, Politechnika, Warsaw.

SOBCZAK, Nikodem

Determination of phenol in the presence of resorcinol. Pt.2.
Chem anal 8 no.4:613-619 '63.

1. Department of Analytical Chemistry, Polytechnic College,
Warsaw.

SOBCZAK, Nakodem

Determination of phenol in the presence of resorcin. Chem
anal 8 no.5:801-806 '63.

1. Katedra Chemii Analitycznej, Politechnika, Warszawa.

SOBCZAK, R., mgr inz.

Farnborough 1962; gyroscopic instruments and systems. Techn
lotn 18 no.12:338-345 D'63.

SOBECZAK, R., mgr inz.

Farnborough 1962; gyroscopy instruments and systems. Techn lctn
18 no.10:278-282 0 '63.

CIO ...

"New Wooden Beam for Bridges." p. 142, (DROG MIKSTRO, Vol. 9, No. 6,
June 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL, LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

SOBCZAK, S.

Light and cheap abutments of small reinforced-concrete bridges. p. 193.

(INZYNIERIA I BUDOWNICTWO, Vol. 14, No. 5, May 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

SOBCZAK, Wojciech

Evaluation of reduced noise resistance of radiolocation and radio telegraphic systems due to the lack of synchronization. *Lacznosc Gdansk* no.12:3-16 '64.

1. Department of Basic Problems of Telecommunication of the Gdansk Technical University. Submitted September 4, 1963.

SOBCZUK, B.

Effect of xanthopterin on tumor metabolism. Postępy biochem. 4 no.1:
107-119 1958

(XANTHOPTERIN, effects,
on exper. neoplasms metab. (Pol)
(NEOPLASMS, experimental,
eff. of xanthopterin on metab. (Pol)

SOBCZYK, A.

Reaction of the decomposition and isomerization of
tetrahydrofurfuryl acetate in the presence of zinc chloride.
Wiad chem 16 no.5:331-332 My '62.

SOBCZYK, A.

Studies on the diuretic activity of certain thiophene derivatives. Wiad chem 16 no.5:332 My '62.

BOBRANSKI, Boguslaw; GIELDANOWSKI, Jerzy; PELCZARSKA, Alicja;
SEDZIMIRSKA, Bozena; SOBCZYK, Anna; WILIMOWSKI, Marian

On some aliphatic and alicyclic amines with hypotensive activity .
Arch. immun. ther. exp. 10 no.4:818-833 '62.

1. Department of Pharmaceutical Chemistry, School of Medicine,
Wroclaw; Department of Pharmacology, Institute of Immunology
and Experimental Therapy, Polish Academy of Sciences, Wroclaw.
(AMINES) (ANTIHYPERTENSIVE AGENTS)
(PHARMACOLOGY)

L 61741-65 EWT(d)/EWP(w) Pg-4 IJP(c) EM

ACCESSION NR: AP5016903

PO/0097/65/006/001/0099/0109

AUTHOR: Sobozyk, K. (Warsaw)

TITLE: Scattering of a plane elastic wave at a random surface

SOURCE: Proceedings of vibration problems, v. 6, no. 1, 1965, 99-109

TOPIC TAGS: differential equation, probability, wave propagation, elastic wave

ABSTRACT: Using various partial differential equations from elasticity such as

$$\Delta \nabla^2 u + (\lambda + \mu) \text{grad div } u = \rho u, \quad (1)$$

$$p_{xx} = \lambda \nabla^2 \Phi + 2\mu(\Phi_{xx} + \Psi_{xx}),$$

$$p_{xx} = \lambda \nabla^2 \Phi + 2\mu(\Phi_{xx} - \Psi_{xx}), \quad (2)$$

$$p_{xx} = \mu(2\Phi_{xx} - \Psi_{xx} + \Psi_{xx})$$

(vector equations of motion in a homogeneous medium) and the theory of second order random processes developed by Loève, the author determines the second order characteristics of the random process which represents the scattering of an elastic wave from a surface whose second order statistical characteristics are given. In particular, the second order characteristics of the potentials are found. The

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L 61741-65

ACCESSION NR: AP5016903

results obtained assume a particularly simple form in the case of a statistically homogeneous surface (weakly stationary process). The author makes some obvious comments concerning determination of the complete distribution of the waves given the complete distribution of the surface. Orig. art. has: 32 formulas.

ASSOCIATION: Department of Vibrations, IBTP Polish Academy of Sciences

SUBMITTED: 26Jun64

ENCL: 00

SUB CODE: G⁰MA

NO REF SOV: 004

OTHER: 010

Card

2/2 *LLP*

ACC NR: AP7003457

SOURCE CODE: PO/0097/66/007/004/0363/0374

AUTHOR: Sobczyk, K. (Warsaw)

ORG: Department of Vibrations, IBTP, Polish Academy of Sciences

TITLE: Rayleigh wave scattering at a random boundary of an elastic body

SOURCE: Proceedings of vibration problems, v. 7, no. 4, 1966, 363-374

TOPIC TAGS: surface roughness, Rayleigh wave, elastic body, Rayleigh wave scattering, Rayleigh wave damping, small perturbation method, correlation theory

ABSTRACT: The problem of Rayleigh wave scattering along a statistically homogeneous random surface was investigated. Using the method of small perturbations, it was found that the probabilistic characteristics of random stresses in the mean plane are the cause of scattered wave generation. The average value and the mean square of fluctuation of the scattered wave amplitude ratio in proportion to the fundamental Rayleigh wave ratio was determined. The damping coefficient was discussed from a probabilistic point of view. A method leading to an approximate

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ACC NR: AP7003457

evaluation of Rayleigh wave velocity variability, caused by surface roughness, was also given. The investigation was conducted within the framework of the theory of random functions of the second order (correlation theory). Orig. art. has: 52 formulas. [Author's abstract]

[DR]

SUB CODE: 20/SUBM DATE: 16May66/ORIG REF: 003/SOV REF: 004/
OTH REF: 003/

Card 2/2

SOBOCZYK, L.

L. SOBOCZYK, "Problems of the hydrogen bond (77 references) Chemical News, Poland,
No. 6, June 1955

Sobczyk, Lucjan

✓ Actual problems about the hydrogen bond. Lucjan
Sobczyk (Higher Polytech. School, Wrocław, Poland).
Wiadomości Chem. 9, 341-68 (1955); cf. C.A. 50, No. 7526a.
Theory, internat. distances in H bridges, the spectroscopy of
H bond (I), dielec. polarization of systems with I, potential-
energy curves, and classification of I are reviewed. 77 refer-
ences. Adam Sporyński

CM

SOBCZYK, LUCIAN

1
High-frequency titration. Lucian Sobczyk (Higher Poly-
technic School, Wrocław, Poland). *Wiedomości Chem.* 10,
607-24(1958).—The following topics are reviewed: theory
of circuits, construction of titration cells, measuring in-
struments, high-frequency generators, diagrams of elec.
circuits of titrimeters, titration errors, and applications of
oscillometry. 62 references. Adam Sporynski

3

PM any

POLAND/Physical Chemistry . Surface Phenomena. Adsorption.
Chromatography. Ion Exchange

B 13

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4013

Author : Sobczyk L.

Title : Ion Exchange in Non-Aqueous Solutions

Orig Pub : Przem. chem., 1956, 12, No 7, 389-392

Abstract : By means of determination of electric conductivity a study has been made of the kinetics and equilibrium constants have been determined of the exchange of Na^+ and K^+ cations in cationite samples under static conditions in water, acetone, methyl alcohol and a mixture of the latter and nitrobenzene. With sufficiently efficient stirring the velocity constants in different solvents are found to be quite similar from which the author draws the conclusion that velocity of the exchange reaction is determined by the diffusion of ions through the interface of resin and solution. The equilibrium constants in aqueous and non-aqueous solutions are very different.

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very different.

moments were 1.98 and 0.88 D. for I and II. Increase of conjugated double bonds in aromatic base rings caused the increase of the dipole moments. The bond polarity can be considered as the measure of acidity and basicity of org. compds. in nonpolar solvent. III forms with org. acids the strongest polar complexes. The forces existing in H bonds may be estimated by quantum chemical methods. The properties of H-bridge systems are assocd. with the valence levels of a proton-acceptor atom. Z. Kurtyka

POLANT/Physical Chemistry - Molecule. Chemical Bond

B.

Abs Jour : Ref Zhur - Khimiya, No 9, 1958, 27665

Author : Sobczyk, L. and Syrkim, J.K.

Inst :

Title : Dielectric Polarization of Systems Containing Hydrogen Bonds. II. Complexes of Organic Acids with Quinoline, Acridine, and Triethylamine.

Orig Pub : Roczniki Chem. 30, No 3, 893-899 (1956) (in Polish with a Russian summary)

Abstract : The dielectric polarization of three-component systems (indifferent solvent, acid, and base) was measured. The effect of the properties of the base (dipole moment μ and ionization constant) and of the valence state of the proton acceptor on the polarization of the hydrogen bond $\Delta \mu$ is discussed. Complexes (K) formed by pyridine (I), quinoline (II), acridine (III), and triethylamine (IV) with propionic (V), chloroacetic (VI),

Card 1/3

9

Sobczyk, L.

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dc

✓ Ion exchange in nonaqueous solutions. L. Sobczyk
(Katedra Chem. Fizycznej, Politech., Wrocław, Poland).
Przemysł Chem. 35, 389-92 (1954) (English and Russian sum-
maries).—The reaction $RNa + K^+ \rightleftharpoons RK + Na^+$ was in-
vestigated, the following solvents being used: H_2O , MeOH,
Me₂CO, and MeOH + PhNO₂. The following values for
K were found: 1.6, 1.9, 3.4, and 1.1. This indicates that
the rate of exchange depends on ion diffusion through the
phase boundary. L. G. Manitus—

3

SUBCZYK, LUCJAN

Dielectric polarization of systems with hydrogen bond.
 III. Organic acids-piperidine complexes. Lucjan Sobczyk and Yakov K. Syrkin (Inst. Chem. Tech., Moscow). *Rozniski Chem. 31*, 197-204 (1957) (Russian summary); cf. *C.A.* 51, 7786d. — The dielec. polarization of piperidine (I) complexes with carboxylic acids (II) (benzoic, chloroacetic, trichloroacetic, and picric, resp.) in C_6H_6 solns. was measured. The polarity of the complexes formed by I with II is weak, and the differences between their dipole moments and those of II are independent of the acids under consideration. The conclusions are drawn, that (1) two H-bonds exist between I and II, and (2) the H atoms in the N-H and O-H groups are examples of the spin-valence distribution. The dipole moment of piperidine picrate (III) is 12.4 D., the largest yet known. III in C_6H_6 solns. is strongly assocd.
 A. Kreglewski

km 1/2 MT JR

Sobczyk, L.

Dielectric polarization of the propionic acid-pyridine system in ether solutions. Lucjan Sobczyk (Politechnika, Wrocław, Poland). *Roczniki Chem.* 31: 319-30 (1957) (Russian summary).—The difference between the additive and the effective polarization ΔP of $C_2H_5COOH-C_5H_5N$ system in Et_2O is very small compared with that in C_2H_5 soln. (cf. *C.A.* 51, 7788d). The increase of ΔP with concn. indicates that the stability of the complexes in a polar solvent is small. If the solvent, however, can form solvates with other components of the soln. (e.g. water), the acid-base interaction may be very strong because of ionization. A. Kreglewski.

Dielectric polarization of systems with hydrogen bond. III. Organic acids-piperidine complexes. Lucjan Sobczyk and Yakov K. Syrkin (Inst. Chem. Tech. Moscow). *Roczniki Chem.* 31: 197-204 (1957) (Russian summary); cf. *C.A.* 51, 7788d.—The dielec. polarization of piperidine (I) complexes with carboxylic acids (II) (benzoic, chloroacetic, trichloroacetic, and picric, resp.) in C_2H_5 solns. was measured. The polarity of the complexes formed by I with II is weak, and the differences between their dipole moments and those of II are independent of the acids under consideration. The conclusions are drawn: that (1) two H-bonds exist between I and II, and (2) the H atoms in the N-H and O-H groups are examples of the spin-valence distribution. The dipole moment of piperidine picrate (III) is 12.4 D., the largest yet known. III in C_2H_5 solns. is strongly assocd. A. Kreglewski.

RM

LUCJAN SOB CZYK

Distr: 4E4j

Dielectric polarization of systems with hydrogen bonds;
IV. Lucjan Sobczyk and Jakov K. Sedla (Inst. Chem.
Technol., Moscow). *Russk. Chem.* 31, 1245-54 (1957)

(Russian summary); cf. *C.A.* 51, 14347e. Studies of the interactions between compds. possessing proton-donor and proton-acceptor properties in C_6H_6 solns. are continued. The values of polarization at infinite diln. and of dipole moments μ , resp., are: HCl 42.5, 1.29; EtO 52, 1.18; *o*-HOC₆H₄NO₂ (I) 235, 3.10; *m*-HOC₆H₄NO₂ (II) 353, 3.91; *p*-HOC₆H₄NO₂ (III) 565, 5.10; azobenzene (IV) 65, 0.0; antipyrine (V) 680, 5.47; naphthalene (VI) 44.1, 0.0. The differences $\Delta P = P_e - P_a$ between the effective and additive (calcd.) polarization for binary mixts. in C_6H_6 soln. are as follows: I-pyridine (VII) 0; II-III 220; III-VII 420; V-chloroacetic acid (VIII) 310; VIII-8-quinolinol 34; HCl-EtO 35; HCl-IV 23; HCl-PhNO₂ -11; HCl-VI -4; EtO-picric acid 4; the value of μ for HCl dissolved in EtO was 2.64 D., whereas the sum of μ of gaseous HCl and EtO is 2.26 D. The difference is attributed to induced μ_{ind} (calcd. 0.32 D.). The results indicate that (a) there exists a strong intramol. H-bond in I, and quadrupole interaction in the HCl-PhNO₂ system, and (b) the H bonds play an important part in coupling π electrons of C-C and N-O linkage, and of the free electron pair in OH group. A. Kreglewski

Am Jln

SCIBLZYK, L

1 1
Dipole moments of nitro derivatives of pyridine. Lucjan Sobczyk (Politechnika, Wrocław, Poland). *Roczniki Chem.* 33, 743-84 (1959) (Russian summary).—The following values of dipole moments μ were detd.: (in parentheses are given μ calcd. for NO_2 attached to aliphatic and aromatic radicals, resp.): 4-nitro- 1.7 (1.2, 1.8), 3-nitro- 3.3 (3.1, 3.5), 2-nitro- 5.1 (4.8, 5.5), 3,5-dinitro- 1.1 (1.1, 1.7), and 2,6-dinitro-3-chloropyridine 6.2 (5.5, 6.1) D. The results are contrary to the model of aromatic behavior of position 3 and 5, and the aliphatic one of 2 and 6. The influence of N in pyridine ring on the given substituent cannot be due to external resonance or coupling. The results prove the extraordinary stability of the electronic structure of the pyridine ring. The chem. properties of a given substituent are not detd. by its structure in this case. The reactivity of pyridine deriva. is discussed. A. Kreglewski

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2 Jg (W3)
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SOBCZYK, LUCJAN

The problem of association of organolithium compounds.
Henryk Ratajski and Lucjan Sobczyk (Univ. Wrocław,
Poland). *Russkii Khim.* 33, 803-4 (1956) (English sum-
mary).—In order to prove the hypothesis of the existence of
an intermol. Li bonding (Rodionov, *et al.*, *C.A.* 55, 3607)
the dielec. polarization of LiOBu (I) in dioxane (II) and
C₆H₆ solns. was detd. as a function of concn. Similar
curves for the 2 solvents proved that the effect of II did not
appear in the case of I. The hypothesis is thus not con-
firmed. A. Knapowski

4E2(d)
1-20(48)
4E3b
4E3d
4

RATAJCZAK, Henryk: SOBCZYK, Lucjan

Influence of self-ionization on the dielectric polarization of dimers
of carboxylic acids. Roczniki chemii 33 no.6:1397-1405 '59. (EEAI 9:9)

1. Katedra Chemii Fizycznej Uniwersytetu, Wrocław i Katedra Chemii
Fizycznej Politechniki, Wrocław.
(Carboxylic acids) (Polymers and polymerization)
(Dielectrics) (Polarization)

SOBCZYK, Lucjan

Dipole moments of some phenyl derivatives of pyridine. *Rocz chemii*
34 no.2:567-572 '60. (EEAI 10:1)

1. Katedra chemii Fizycznej Politechniki, Wrocław i Katedra Chemii
Fizycznej Uniwersytetu, Wrocław.

(Electric moment)	(Diphenylpyridine)
(Triphenylpyridine)	(Phenylpyridine)

SOBCZYK, L.

UV absorption spectra of phenylsubstituted pyridines and quinolines.
Bul chim PAN 9 no.4:237-244 '61.

1. Department of Physical Chemistry, University, Wroclaw and Department of Physical Chemistry, Technical University, Wroclaw. Presented by T. Urbanski.

(Adsorption and absorption) (Phenyl) (Pyridine)
(Quinoline)

SOBCZYK, L.; KOLL, A.; RATAJCZAK, H.

Dielectric polarization and the interaction of phenols and piperidine in hydrogen bonded complexes. Biul chim PAN 11 no.2:85-89 '63.

1. Department of Physical Chemistry, University, Wroclaw, Presented by W. Trzebiatowski.

MALANSKI, Zdzisław; SOBCZYK, Lucjan

Absorption of amines by the carboxylic cation exchanger amberlite
IRC-50 from nonaqueous solvents. *Rocz chemii* 37 no. 7/8:871-880
1963.

1. Department of Physical Chemistry, University, Wrocław.

SOBCZYK, L., KOLL, A.

Physico-chemical properties and structure of dipyridylamines.
Pt.1. Bul chim PAN 12 no.12:831-835 '64.

1. Department of Physical Chemistry of Wroclaw University.
Submitted October 3, 1964.

S0BCZYK, PIOTR

"Rice growing"

p. 38 (Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1952, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

SOBCZYK, Piotr

A case of psychic disorders of the pellagroid type. Neur.&c. polska
7 no.5:739-745 Sept-Oct 57.

1. Klinik, Psychiatryczna Slaskiej A. M. Lubliniec. Kierownik: doc. S.
Gwynar. Oddzial Mlodziezowy. Ordynator: J. Krasowska.
(PELLAGRA, manifest.
ment. disord. (Pol))
(MENTAL DISORDERS, etiol. & pathogen.
pellagra (Pol))

SOBCZYK, Piotr

On insulin convulsions. Neur.&c.polska 10 no.5:681-689 '60.

1. Klinika Psychiatryczna Sl. A.M. - Lubliniec, Kierownik Z-ca
prof. dr med. S.Swierczek. Oddzial Psychiatrii Rozwojowej,
Ordynator: dr med. J.Krasowska.
(HYPERINSULINISM)

SOBCZYK, Piotr

Experiment with a simultaneous administration of ATP and berolase
in insulin treatment. Neurologia etc. polska 11 no.2:215-220
Mr-Ap '61.

1. Klinika Psychiatryczna Sl.A.M. w Lublincu Kierownik: doc. dr
med. S. Swierczek.

(SHOCK THERAPY INSULIN) (ADENOSINE PHOSPHATES ther)
(COCARBOXYLASE ther)

SOBCZYK, Piotr

Attempted establishment of the relationship between insulin seizures and symptomatic schizophrenia. Neurol. neurochir. psychiat. Pol. 14 no. 2:297-302 Mr-Ap '64.

1. Klinika Psychiatryczna Sl. AM w Lublincu (Kierownik: doc. dr med. S.Swierczek).

LOBZYK, B.

Symptomatic psychosis similar to the paranoia parasitaria.

Pol., neurochic., psychiatrist. Pol. 11 no.4:611-614 J1-Ag '61

2 Z Kliniki Psychiatrycznej Śląskiej Akademii Medycznej w
Łodzi (Kierownik: doc. dr. med. S. Świerczek.).

3701

Sobczyk W. Constructing the Under-Water Part of Slips without Using
Dams.

627.36 : 629.124.72

„Budowa podwodnej części slipu bez zastosowania grodzi”. Technika
i Gospodarka Morska. No. 8, 1954, pp. 249.

Description of a slip design evolved by the author. The design provides
for precast elements in the form of reinforced concrete frames supported
on piles. Slips can, with precast elements, be constructed without using
dams. This is likely to result in savings amounting to roughly 2 million
Zloties and in cutting 6 months off the time required for construction.

SOBCZYK, W.

Osmycki's Telefoniczne sieci miejscowe (Local Telephone Systems); a book review. p.237.
(WIADOMOSCI TELEKONUNIKACYJNE, Warszawa, Vol. 24 (i.e.23), No. 12, Dec. 1954)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 6, June 1955, Uncl.

SOBCZYK, W., mgr., inż.

Concrete chamber-girder quay construction in the Danzig port. Tech
gosp morska 10 no.10:318-319 0 '60.

1. Biuro Projektow Budownictwa Morskiego, Gdansk.

SOBCZYK, Wladyslaw, inz.

Testing lead-acid accumulator plates with the cadmium
electrode. Przegl telekom 35 [i.e. 36] no.3:90-92
Mr '63.

SOBCZYK, Zbigniew, mgr inż.

Zinc plating of bands with the Sedzimir method. Wiad hut 16
no.1:22-23 Ja '60.

34050

S/123/62/000/003/003/018
A004/A101

15.2400

AUTHOR: Sobczyk, Zenon

TITLE: Using cermets as heat-resistant structural materials

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1962, 25, abstract
3A153 (Cermetale-nowe zaroodporne materialy konstrukcyjne i ich
zastosowanie. "Mechanik", 1961, v. 34, no. 7, 360-361, Polish)

TEXT: The author presents the mechanical properties of cermets of the Al_2O_3 -Fe and Al_2O_3 -Cr type which are used as heat-resistant materials. The maximum bending strength cermet has at a Fe-content of up to 65% and an average Al_2O_3 grain size not exceeding 5μ . Cermets are sintered in a hydrogen atmosphere at temperatures in the range of 1,400 - 1,500 and 1,800 - 1,900°C. Specimens made of very fine Fe and Al_2O_3 powders (85% Al_2O_3), after sintering at 1,700 - 1,750°C have σ_b bend = 20 kg/mm². The electric and heat conductivity of cermet is determined by its composition, sintering temperature and pressing method. Depending on the Al_2O_3 and Fe-content, it is possible to obtain cermets of different structures: 1) The Al_2O_3 grains form a skeleton in which the metal grains (insulators) are placed; 2) The Al_2O_3 grains are located in a metallic

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34050

S/123/62/000/003/003/018
A004/A101

Using cermets as heat-resistant ...

skeleton (electroconductive ceramics). 3) Metal and ceramics have interpenetrating skeletons. Instead of Fe-powders, also steel powders are used, containing up to 0.5% C, which makes it possible to heat-treat cermets, e.g. to harden them. Powders from alloyed Cr and Cr-Ni steels are used for corrosion-resistant cermets. Cr-powder of some 10μ grain size with Fe (3 - 5%), WC (2 - 3%), Co (0.75%) additions and very fine-grained Al_2O_3 powder (approximately 0.8μ) is used for the manufacture of Al_2O_3 -Cr cermet. Cermet, sintered in a CO and N_2 -atmosphere possesses superior properties in comparison with specimens sintered in a hydrogen atmosphere. The final sintering temperature for cermets with 50% Cr attains $1,600 - 1,650^\circ C$. Cermets which have been manufactured in such a way, have a high oxidation resistance up to $1,500^\circ C$. At a tenfold heating up to $1,350^\circ C$ and cooling in the air, the specimen strength rises by 15 - 50%, which can be explained by the oxidation of the metal surface, owing to which surface cracks are closed. The specific gravity of cermet amounts to $4.65 g/cm^3$; $HV = 1,100 - 1,200 kg/mm^2$, $\sigma_b compr = 225$, $\sigma_b bend = 38.7$ at $20^\circ C$ and 17.2 at $1,316^\circ C$, $\sigma_b = 24.6$ at $24^\circ C$ and $2.2 kg/mm^2$ at $1,316^\circ C$. The maximum $\sigma_b bend = 30 - 35 kg/mm^2$ is shown by cermet of a composition of 10 - 30% Al_2O_3 and 70-80% Cr. During tests in the temperature range of $400 - 800^\circ C$, specimens from cermet

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156

B1
2

Underground gasification of coal. S. Rosinski, Z. Sobczyk,
and K. Tomkow (*Przegląd Górnictwa*, 1980, 6, 276-285; *U.S.*
Bur. Min., 1981, *Synth. Liquid Fuels Abstr.* 6, No. 1, 2)---A review
of Russian work. A. R. FRANKSON.

ASME-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIABLE INDEX																									
<p align="center">PROCESSES AND PROPERTIES INDEX</p> <p>New Bearing Materials. L. Andreyew and Z. Sobczyk. (Hutnik, 1960, vol. 17, Nov.-Dec., pp. 424-427). [In Polish]. Bearing materials for rolls made from woods 'Lignoston' and 'Ligno-fol' developed in the U.S.S.R., methods of their manufacture, and the constructions of the bearings are described. Properties of these materials are compared with bronze and synthetic-resin-impregnated fabrics.—v. 0</p>																																																			
<p align="center">ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
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1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order. The names are: [illegible]

6. p.

SLEZIK, Z.

"The Principles of Heating Ingots in Soaking Pits in Steel Mills" p. 19
(Wiadomosci Hutnicze, Vol. 9, No. 3, March, 1953, Stalinogrod)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
February, 1954, Uncl.

SCBECZYK, Z.

"Regaining Chimney Heat" p. 27 (Wiadomosci Hutnicze, Vol. 9, No. 6, June, 1953, Stalinogrod)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

SOBCZYK, Z.

"Pit Furnaces in Steel Mills" p. 35 (Wiadomosci Hutnicze, Vol. 9, No. 7/8,
July/ Aug., 1953, Stalinogrod)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
February, 1954, Uncl.

SORCZYK, Z.

"Furnaces with grates in rolling mills." (p.23) WIADOMOSCI HUTNICZE (Centralny Zarzad Przemyslu Hutniczego) Stalinogrod. Vol 9, no. 9, Sept. 1953

SO: EAST European Accessions List Vol 4, No 8, Aug. 1954

SOBCZYK, Z.

"Some Directives Concerning the Construction of Plastic Rolling Mill Bearings." p.10
(WIADOMOSCI HUTNICZE Vol. 10, no. 1, Jan. 1954 Stalinogrod, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

15304. The Role of Initial Coarse Rolling in the Development of Defective Rolled Products. Zagadnienie wybraków walcowniczych na zgniataczu. (Polish.) Zbigniew Sobczyk. Wiadomości hutnicze, v. 11, no. 5, May 1953, p. 134-137. Types of defective rolling mill products traceable to the first rough-rolling rolls. The effect of overheating or underheating, twisting, and overrolling or unequal rolling. Graphs.

SOBCZYK, Zbigniew (Plock)

Construction of the dwelling developments "Kolegialna" and
"Dobrzynska" and the building trade school for the "Petrobudowa"
Project. Przegl budowl i bud mieszk 34 no.4/5:246-249 Ap-My
'62.

Z/056/62/019/002/002/014
I037/I242

AUTHOR: Sobczyk, Z.

TITLE: Ceramic-metals - new fireproof construction materials
and their use

PERIODICAL: Přehled technické a hospodářské literatury,
Hutnictví a strojírenství, v.19, no.2, 1962,
87, abstract HS62-1103 (Mechánika, Warszawa,
v.34, no.7, 1961, 360-361

TEXT: Definition of ceramic-metallic materials, production
review, composition, division. The substances Al_2O_3 -Fe Al_2CO_3 -Cr.
Development prospects. 11 references.

[Abstracter's note: Complete translation.]

Card 1/1

SOBCZYK, Zbigniew, mgr inz.

Little known use of certain metals. Wlad hut 19 no.7/8:
212-215 J1/Ag '63.

SOBCZYK, Zbigniew (Zabrze)

Carpenter finishing and aluminum plumbing in the Hutnik
sanatorium in Szczawnica. Przegl budowl i bud mieszk 35
no.10:524-527 0'63.

SOBCZYK, Zbigniew, mgr inz.

Rolling mill of the steel works in Dunkirk. Wiad hut 15
[i.e. 20] no.5:141-145 My '64.

SOBCZYK, Zbigniew (Zabrze)

Experiments in foundations of high structures in mountainous
areas. Przegl budowl i bud mieszk 36 no. 5:247-251 My '64.

JOHN W. LINDSEY, Jr.

Technical development trends in the field of metallurgy
in 1965. (Adapted from the report of the same name)

ACC NR: AT6001506

SOURCE CODE: PO/2514/64/000/012/0003/0016

AUTHOR: Sobczak, W.

ORG: Danzig Polytechnical Institute (Politechnika Gdanska)

TITLE: Estimating the decrease in the noiseproof feature in radar and radiotelegraphy systems due to the absence of synchronization

TOPIC TAGS: radar, radiotelegraphy, radar signal, radar signal analysis, signal to noise ratio, signal processing

ABSTRACT: The purpose of this study is to determine the effect of the passive parameters on the quality of the optimum decision rule and to consider the effect of the absence of synchronization on the optimum decision rule. The mean probability of error is taken as the criterion of quality of the decision rule in making the comparison between systems using signals with passive parameters and synchronous systems. High frequency signals of which the phase, or the phase and amplitude are not known are considered and also signals dependent on the discrete passive parameter which can be used in radar and radiotelegraphy. For synchronous as well as non-synchronous systems as the optimum decision rule, the mean probability of error is used which tends to zero for large signal-to-noise ratio, but tending to 1/2 for

Card 1/2

L 39653-66

ACC NR: AT6001506

small signal-to-noise ratios. Only the first of the asymptotic expansions are taken into account which limits the treatment to large signal-to-noise ratios. The speed of convergence of the curves of mean probability of error and of signal-to-noise ratios is compared. The results obtained make it possible to estimate to what extent the quality of optimum decision rules in non-synchronous systems is inferior to the quality of optimum decision rules in synchronous systems. Orig. art. has 1 figure and 41 formulas.

SUB CODE: 17, 09/ SUBM DATE: 04Sep63/ ORIG REF: 004/ SOV REF: 001/
OTH REF: 002

Card 2/2 HS

L 38414-66

ACC NR: AT6018331 SOURCE CODE: PO/2507/65/015/49-/0017/0027

AUTHOR: Sobczak, W.--Sobchak, V.

72
B+1

ORG: Gdansk Polytecnic, Department of Control and Information Theory
(Politechnika Gdanska, katedra teorii sterowania i informacji)

TITLE: Accuracy evaluation in systems with multiple signal modulation

SOURCE: Warsaw. Przemyslowy Instytut Telekomunikacji. Prace, v. 15,
no. 49/50, 1965, 17-27

TOPIC TAGS: signal modulation, pulse position modulation, mean
square error, *communication system*

ABSTRACT: A method of calculating the quadratic error in the systems
of transmitting several continuous communications simultaneously is
described. The existence of small Gauss noises (error of the first
mode) is accepted, which premitted the use of the power-expansion
method. Decisions are taken according to the highest probability rule.

Card 1/2

UDC: 621.391.01

GODLEWSKI, Zbigniew, Dr med; SOBCZYNSKA, Barbara, lek.

Therapeutic significance of ultrasonics in rheumatic diseases.
Postepy reumat. no.1:180-184 1954.

1. Z Panstwowego Instytutu Reumatologicznego Dyrektor: prof. dr
E.Reicher.

(ULTRASONICS, therapeutic use,
rheum. arthritis)
(ARTHRITIS, RHEUMATOID, therapy,
ultrasonics)

SOBOZYNSKA, M.

The determination of iron by the colorimetric method. (Conclusion)

P. 11, (Przegląd Skoranv. Vol. 11, no. 9, Sept. 1956, Lodz, Poland)

Monthly Index of East European Accessions (FFAI) EE. Vol. 7, no. 2,
February 1958

SOBCZYNSKA - CZECHOWSKA, Zofia
PAWLEWSKI, Slawomir; SOBCZYNSKA-CZECHOWSKA, Zofia

Early result of myleran therapy of chronic myeloid leukemias. Polski
tygod. lek. 12 no.43:1650-1654 28 Oct 57.

1. Z Kliniki Hematologicznej Instytutu Hematologii; Kierownik Kliniki:
prof. dr med. W. Lawkowicz; dyrektor Instytutu: doc. dr med. A. Trojanowski.
Adres: Warszawa, Chocimska 5; Inst. Hematologii.

(BUSULFAN, therapeutic use,
leukemia, myelocytic (Pol))
(LEUKEMIA, MYELOCYTIC, therapy,
busulfan (Pol))

CZECHOWSKA,
PAWELSKI, Sławomir; SOBCZYNSKA, Zofia; WROCZYNSKA, Krystyna; ZABOKRZYCKI,
Juliusz

Prolonged hemato-radiological observations on myelosclerosis. Polskie
arch. med. wewn. 29 no.2:243-250 1959.

1. Z Oddziału Hematologicznego Kierownik: prof. dr med. W. Lawkowicz z
Zakładu Radiologii Kierownik: doc. med. J. Zabokrzycki Instytutu Hema-
tologii Dyrektor doc. dr med. A. Trojanowski. Adres: Łódź. ul.
Armii Ludowej 27 m. 7.

(ANEMIA, LEUKOERTHROBLASTIC, case reports,
follow-up (Pol))

PAWELSKI, Sławomir; LESZKO, Bożena; SOBCZYNSKA-CZECHOWSKA, Zofia;
WOLOSEWICZ-ZDZIECHOWSKA, Halina

Results of the treatment of 210 cases of various forms of leukemia.
Polski tygod. lek. 16 no.33:1279-1284 14 Ag '61.

1. Z Oddziału Hematologicznego, kierownik: prof. dr med. W. Lawkowicz
i z Oddziału Wewnętrzznego, kierownik: dr med. S. Pawelski, Instytutu
Hematologii w Warszawie: dyrektor: doc. dr med. A. Trojanowski.

(LEUKEMIA ther)

GERMAN-WOJNIEWSKA, Maria; KACPERSKA, Elzbieta; SOBCZYNSKA-CZECHOWSKA, Zofia;
PAWELSKI, Slawomir

Primary auto-immune hemolytic anemias. Prolonged clinical, hemato-
logical and serological observation. Therapeutic results. Pol. arch.
med. wewnet. 34 no.8:1065-1072 '64.

I. z Oddzialu Chorob Wewnetrznych Instytutu Hematologii (Kierownik:
doc. dr. med. S. Pawelski); z Oddzialu Hematologicznego (Kierownik:
prof. dr. med. W. Lawkowicz) i z Zakladu Srologii (Kierownik: doc.
dr. med. H. Seyfriedowa).

SOBCZYNSKI, Jozef

Ossous tuberosities of the skull in the course of colliquative tuberculosis and iustic infection. Pol. tyg. lek. 20 no.31: 1169-1170 2 Ag '65.

1. Z Oddzialu Chorob Wewnetrznych Szpitala Wojewodzkiego w Warszawie (Ordynator: doc. dr. med. Franciszek Litwin [deceased]).

SOBCZYŃSKI, Z.

POL.

The formation of subcompounds of aluminum and sodium
emulsions. Zbigniew Sobczyński (Politech. Gdańsk., Poland). *Zeszyty Nauk. Politech. Gdańsk. Chem.* No. 1, 67-81 (1954) (English summary).—S. investigated nuclear cosmic binary stars of abnormal geometrical figures, especially those of double centers with 5 arms each less than 62 μ . Ilford C2 photographic plates with an emulsion 100- μ thick (and 50% of the surface covered with a layer of paraffin 2-cm. thick) were exposed for 105 days on top of the highest Polish mountains; they were then developed with 1D 19 developer. Out of many stars on the photographic plates S. selected some and enlarged them 800 to 2000-fold. Cosmic stars were distinguished from radiation ones: the cosmic stars were formed partly by protons, or fully by α -particles with at least 1 arm of the star lying outside the range of α -particles of radioactive elements, or were made fully by α -particles with 2 arms longer than 27 μ . A total of 1724 stars was found on a photographic plate of 83 sq. cm. surface; the majority of these stars was on the paraffin-covered surface. Some of small stars were characterized by an abnormal geometric figure. S. named them binary stars because of the presence of 2 centers in each of the stars. Both centers were either connected or not connected to each other. By a math. analysis S. concludes that the investigated cosmic stars originate from a fission of a highly excited and unevenly heated light nucleus and a subsequent evapn. of nuclei obtained from the above fission. Such processes are probably a kind of far-advanced photodisintegration. S. found a far-advanced nuclear disintegration of C^{12} , N^{14} , and O^{16} presun-

2. EIA: NEW SOBCZYNSKI

ably caused by the action of a photon of an energy approx.
80 m.e.v. Thus, fission takes place as follows: $C^{12} \rightarrow Be^{10} + He^{4}$; $N^{14} \rightarrow Be^{10} + Li^{4}$; and $O^{16} \rightarrow Be^{10} + He^{4}$.
The fission energy was found to be 11-27 m.e.v. The sub-
sequent evaporation proceeds according to: $He^{10} \rightarrow 2H^1 + 2n$;
 $Li^{4} \rightarrow He^{4} + H^1 + n$; and $Be^{10} \rightarrow He^{4} + 2H^1 + 2n$. 24
references. P. J. Hendel

4

P/528/61/001/000/002/007
D207/D308

AUTHOR: Sobczyński, Zbigniew
TITLE: Design of a helical 'time of flight' mass spectrometer for the range 20-300 atomic mass units
SOURCE: Danzig. Wyższa Szkoła Pedagogiczna. Zeszyty naukowe. Matematyka, fizyka, chemia, v. 1, 1961. Danzig: 1962, 23-45

TEXT: The author deals with the design of an omegatron-type mass spectrometer in which ions are focussed after traversing a single 'turn' of the helical path. A theoretical treatment of the ion motion in a constant magnetic field shows that the dependence of the time of flight along the helical path on the ion mass is a suitable basis for the spectrometer action. It is proposed to inject ions in 0.8 μ sec pulses at an angle of about 60° to the lines of force of a magnetic field of 400 G provided by a 100 cm long coreless solenoid.

Card 1/2

SOBECKA, Z., ed.

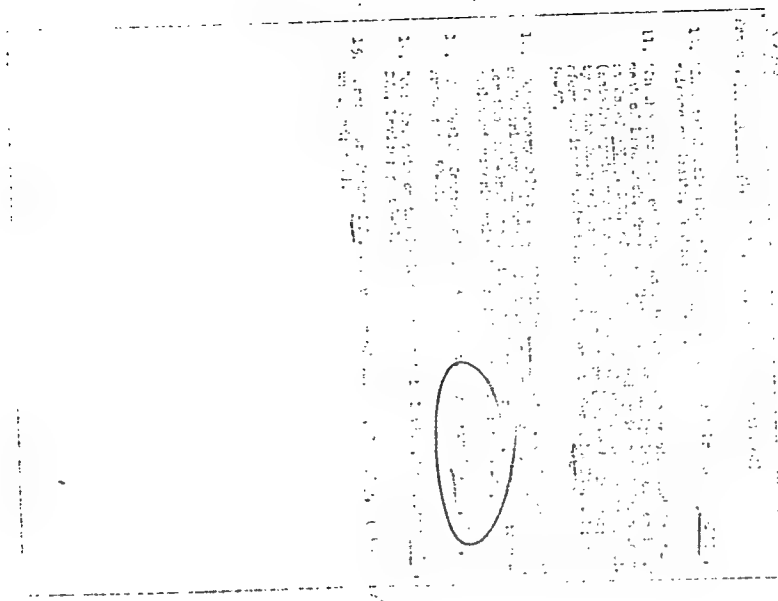
Słownik chemiczny niemieckopolski z indeksem terminów polskich.

Warszawa, Poland. Państwowe Wydawn. Naukowe 1958, 830p.

Monthly List of European Accessions (EFAI) LC, Vol. 8, no. 7, July 1959

Incl.

SOBER, B



CZECHOSLOVAKIA

SOBEK, B., DVM.

Prague;

Prague, Veterinarstvi, No 4, 1963, pp 145-147

"Some Basic Questions Concerning Reproduction in
Farm Animals."

SOBEK, Frantisek

Importance of curing periods in the conventional method of thermal treatment of concrete. Poz stavby 11 no.5:245 '63.

1. Vyzkumny ustav stavebni, Gottwaldov.

SOBEK, J.

CZECHOSLOVAKIA/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30051

Author : Sobek, J.

Inst : -

Title : The Selection of Walnuts.

Orig Pub : Sbor. Ceskosl. akad. zemed. ved. Rostl. vyroba, 1956,
29, No 8, 717-728 (Czech; res. Russ., Eng., Ger.).

Abstract : There were 700 seed trees selected in all. In selecting the seed trees were listed in 1, 2, 3, 4 classes, each of which has specific characteristics, a description of which is included. In the first class the size of the nut is 40 x 35 mm, the weight 10.5 g., the ratio between the weight of the kernel and that of the entire nut is 48%. Highest quality nuts were picked out in the districts of Bratislava, Kralova, Gradtsa, Ostrava, Brno. Going from the West to the East in Czechoslovakia, the nut oil content increases with the simultaneous rise in the heaviness

Card 1/2

L 21147-66 EWP(t)/EMA(h) IJP(c) JD

ACC NR: AP6011971

SOURCE CODE: CZ/0057/65/000/003/0133/0135

AUTHOR: Vrtek, Jaromir (Engineer); Sobek, Jan

ORG: NIKG, Ostrava

TITLE: Experience in construction and during first years of operation of the oxygen plant at the Klement Gottwald Nova Hut Iron Works

SOURCE: Hutnik, no. 3, 1965, 133-135

TOPIC TAGS: furnace, krypton, xenon, oxygen

ABSTRACT: The oxygen is produced as technical-grade product, and used for increasing production rate in existing furnaces. A krypton concentrate plant is also in production, yielding a 40-80% Kr and Xe by volume. The oxygen plant is of Russian manufacture, and produces 4,700 m³/hof 95% O₂, 280 m³/hof 99.2% O₂, and 20 m³/hof a Kr - Xe concentrate with 0.1 to 0.2% of Kr and Xe. The compressors are of Brown-Boveri manufacture; units have a 32,000 Nm³/h capacity at 6.5 atp pressure. Start-up difficulties of the plant are discussed. Shortcomings of the design of the oxygen plant are described. Orig. art. has: 2 figures and 1 table. [JPRS]

SUB CODE: 13 / SUBM DATE: none

Steel Making

Card 1/1

SOBEK, S.

"A new nitrogen fertilizer." p. 201. (Chemik. Vol. 6, no. 7/8, July/Aug. 1953.
Katowice.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,
Feb. 1954, Uncl.

COMM, 3.

Roszyk, E. Still more about saltpeter. p. 107.
Gazeta, Katowice, Vol. 3, no. 4, Apr. 1955.

30: Monthly List of East European Accessions, (JAL), LI, Vol. 4, no. 10, Oct. 1955,
Uncl.

SOBEK, V. ; RASKOVA, H.

"Effect of a typhoid toxin on the transfer of excitation in ganglia." p. 274.

CESKOSLOVENSKA FYSIOLOGIE. Praha, Czechoslovakia, Vol. 7, no. 3, May 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959.
Uncl.